

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT

PERMITTEE

Gardner Denver, Inc.
Attn: Mr. Mark Chiado
1800 Gardner Expressway
Quincy, Illinois 62305

<u>Application No.:</u> 89080073	<u>I.D. No.:</u> 001815AAK
<u>Applicant's Designation:</u>	<u>Date Received:</u> May 20, 2004
<u>Subject:</u> Paint Booths, Cold Cleaning, Tempering Furnace, & Evaporator	
<u>Date Issued:</u>	<u>Expiration Date:</u>
<u>Location:</u> 1800 Gardner Expressway, Quincy	

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of:

4 Paint Booths
Tempering Furnace (#1643)
Samsco Water Evaporator
Cold Cleaning

pursuant to the above-referenced application. This permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emissions of air pollutants from the source to less than major source thresholds (i.e., volatile organic material (VOM) to less than 100 tons per year, single hazardous air pollutants (HAPs) to less than 10 tons per year and combined HAPs to less than 25 tons per year). As a result the source is excluded from the requirement to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes all operating permits issued for this location.
- 2a. Total emissions of volatile organic material from the above-referenced plant, including 4 paint booths, cold cleaning, clean-up operations and all other exempt emission units, shall not exceed 24.9 tons per year in the absence of air pollution control equipment. This condition is required to meet the exemption limit specified in 35 Ill. Adm. Code 215.206(a).

- b. The emissions of Hazardous Air Pollutants (HAP) as listed in Section 112(b) of the Clean Air Act shall be less than 10 tons/year of any single HAP and 25 tons/year of any combination of such HAPs. As a result of this condition, this permit is issued based on the emissions of all HAPs from this source not triggering the requirements to obtain a Clean Air Act Permit Program Permit (CAAPP).
- c. This permit is issued based on negligible emissions of particulate matter (PM) from each paint booth. For this reason, emissions from each paint booth shall not exceed 0.1 lb/hour and 0.44 tons/year, for a total of 1.8 tons/year.
- d. The Permittee shall operate all cold cleaning in accordance with the following procedures and requirements pursuant to 35 Ill. Adm. Code 215.182:
 - i. Operating Procedures: No person shall operate a cold cleaning degreaser unless:
 - A. Waste solvent is stored in covered containers only and not disposed of in such a manner that more than 20 percent of the waste solvent (by weight) is allowed to evaporate into the atmosphere;
 - B. The cover of the degreaser is closed when parts are not being handled; and
 - C. Parts are drained until dripping ceases.
 - ii. Equipment Requirements: No person shall operate a cold cleaning degreaser unless:
 - A. The degreaser is equipped with a cover which is closed whenever parts are not being handled in the cleaner. The cover shall be designed to be easily operated with one hand or with the mechanical assistance of springs, counterweights, or a powered system if:
 - 1. The solvent vapor pressure is greater than 2 kPa (15 mmHg or 0.3 psi) measured at 38°C (100°F);
 - 2. The solvent is agitated; or
 - 3. The solvent is heated above ambient room temperature;
 - B. The degreaser is equipped with a facility for draining cleaned parts. The drainage facility shall be constructed so that parts are enclosed under the cover while draining unless:
 - 1. The solvent vapor pressure is less than 4.3 kPa (32 mmHg or 0.6 psi) measured at 38°C (100°F); or

2. An internal drainage facility cannot be fitted into the cleaning system, in which case the drainage facility may be external.

C. The degreaser is equipped with one of the following control devices if the vapor pressure of the solvent is greater than 4.3 kPa (32 mmHg or 0.6 psi) measured at 38°C (100°F) or if the solvent is heated above 50°C (120°F) or its boiling point:

1. A freeboard height of 7/10 of the inside width of the tank or 91 cm (36 in), whichever is less; or

2. Any other equipment or system of equivalent emission control as approved by the Illinois EPA. Such a system may include a water cover, refrigerated chiller or carbon adsorber.

D. A permanent conspicuous label summarizing the operating procedure is affixed to the degreaser; and

E. If a solvent spray is used, the degreaser is equipped with a solid fluid stream spray, rather than a fine, atomized or shower spray.

3a. Emissions and operation of the tempering furnace and all other natural gas-fired equipment shall not exceed the following limits:

		E M I S S I O N S					
Natural Gas Usage		NO _x	CO	VOM			
<u>(mmscf/Mo)</u>	<u>(mmscf/Yr)</u>	<u>(T/Mo)</u>	<u>(T/Yr)</u>	<u>(T/Mo)</u>	<u>(T/Yr)</u>	<u>(T/Mo)</u>	<u>(T/Yr)</u>
10	100	0.5	5.0	0.4	4.2	0.03	0.3

These limits are based on standard AP-42 emission factors. Compliance with annual limits shall be determined from a running total of 12 months of data.

b. Natural gas shall be the only fuel(s) fired in the Tempering Furnace (#1643). Use of any other fuel will require a revised permit.

4. This permit is issued based on negligible emissions of volatile organic material from Samsco Water Evaporator. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 tons/year.

5. The Permittee shall maintain monthly records of the following items:

a. For each paint booth: the name and volume of each coating used (gallons), the VOM and HAP contents (pound/gallon), and the actual VOM and HAP emissions (tons). All of the above shall exclude any water or exempt compounds in the coating;

- b. Amount of each material (gallons/month and gallons/year) and VOM and HAP contents (lb/gallon) for cold cleaning, all clean-up operations and all other exempt units, and emission calculations (tons/month and tons/year); and
 - c. Natural gas combustion for all equipment (mmscf/month and mmscf/year).
6. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA request for records during the course of a source inspection.
7. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
8. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
5415 North University
Peoria, Illinois 61614

9. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year:
- a. For each paint booth: the name and volume of each coating used (gallons), the VOM and HAP contents (pound/gallon), and the actual VOM and HAP emissions (tons). All of the above shall exclude any water or exempt compounds in the coating; and

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- b. Amount of each material (gallons/month and gallons/year) and VOM and HAP contents (lb/gallon) for cold cleaning, all clean-up operations and all other exempt units, and emission calculations (tons/month and tons/year); and

If you have any questions on this permit, please contact Randy Solomon at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:RBS:psj

cc: Illinois EPA, FOS Region 2
Illinois EPA, Compliance Section
Lotus Notes

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from coating plant operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. This is using less than 25 tons per year of volatile organic material. The resulting maximum emissions are well below the levels, e.g., 100 tons per year of volatile organic material, less than 10 tons per year of single hazardous air pollutant, and less than 25 tons per year of combined HAPs at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled, lower VOM content coatings are used, and control measures are more effective than required in this permit.

<u>Emission Unit</u>	<u>PM (Tons/Yr)</u>	<u>VOM (Tons/Yr)</u>	<u>NO_x (Tons/Yr)</u>	<u>CO (Tons/Yr)</u>	<u>Single HAPs (Tons/Yr)</u>	<u>Combined HAPs (Tons/Yr)</u>
4 Paint Booths	1.8	24.6				
Tempering Furnace and all gas-fired equipment		0.3	5.0	4.2		
Water Evaporator	0.44					
Totals	2.3	24.9	5.0	4.2	< 10	< 25

RBS:psj